

PATENT  
Attorney Docket No. 401530

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Art Unit: 2834

KITAMURA et al.

Examiner: P. Cuevas

Application No. 10/030,986

Date of Allowability: March 3, 2005

Filed: January 16, 2002

Batch No.: 9157

For: EXCITATION CONTROL DEVICE  
AND EXCITATION CONTROL  
METHOD

**COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE**

U.S. Patent and Trademark Office  
Randolph Building  
401 Dulany Street, Customer Window, Mail Stop Issue Fee  
Alexandria, VA 22314

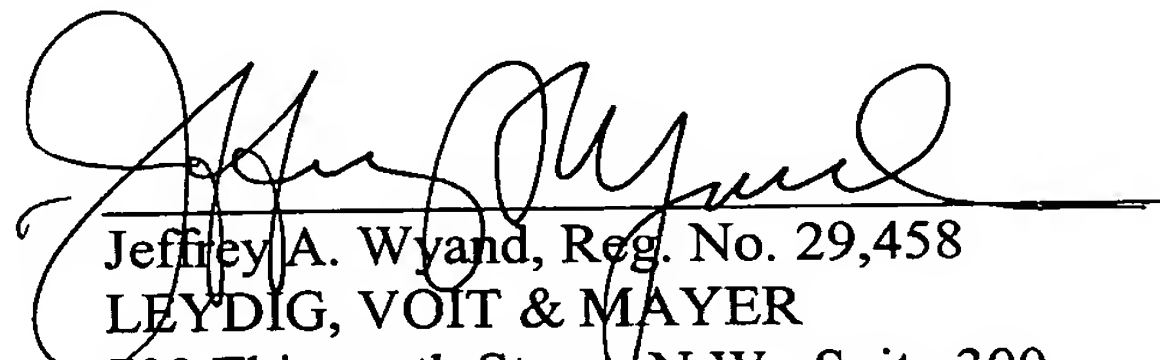
Dear Sir:

The Examiner's Statement of Reasons for Allowance appearing at pages 2 and 3 of the attachment to the Notice of Allowance purports to reproduce independent claims 1 and 3 of this patent application. However, there is very little relationship between the claims appearing in that attachment and the claims that were allowed.

Clearly, in this instance, the scope of the claims allowed in this patent application is determined by the claim language itself and not confined by the different statement of those claims that appears as the Examiner's Statement.

For convenience, a copy of the claims allowed in this patent application is attached as that set of claims appeared in the Appeal Brief, corrected for minor formatting errors.

Respectfully submitted,

  
Jeffrey A. Wyand, Reg. No. 29,458  
LEYDIG, VOIT & MAYER  
700 Thirteenth Street, N.W., Suite 300  
Washington, DC 20005-3960  
(202) 737-6770 (telephone)  
(202) 737-6776 (facsimile)

Date: April 1, 2005  
JAW/tps

## *Claims Appendix*

### 1. An excitation control device comprising:

voltage detecting means for detecting a voltage of an output terminal of a synchronous machine which is connected to a power transmission system through a transformer;

reactive current detecting means for detecting a reactive current output from the synchronous machine;

voltage setting means for setting a reference voltage of the output terminal of the synchronous machine according to the reactive current detected by the reactive current detecting means, a reference voltage of an output side of the transformer, and a phase compensation transfer function to quicken attenuation of an electric power fluctuation; and

control means for controlling an exciting system of the synchronous machine according to a difference between the reference voltage set by the voltage setting means and the voltage of the output terminal of the synchronous machine detected by the voltage detecting means.

2. The excitation control device according to claim 1, wherein the reference voltage of the output terminal of the synchronous machine is set by the voltage setting means based on the voltage of the output terminal of the synchronous machine detected by the voltage detecting means.

### 3. An excitation control method, comprising:

detecting a voltage of an output terminal of a synchronous machine which is connected to a power transmission system through a transformer;

detecting a reactive current output from the synchronous machine;

setting a reference voltage of the output terminal of the synchronous machine according to the reactive current, a reference voltage of an output side of the transformer, and a phase compensation transfer function to quicken attenuation of an electric power fluctuation; and

controlling an exciting system of the synchronous machine according to a difference between the reference voltage of the output terminal of the synchronous machine and the voltage of the output terminal of the synchronous machine.

4. The excitation control method according to claim 3, wherein setting the reference voltage of the output terminal of the synchronous machine includes setting the reference voltage of the output terminal of the synchronous machine based on the voltage of the output terminal of the synchronous machine.